

Solve each inequality.

BE - 1A Monday 5-12-2008

1. $-7x < -9x + 14$
2. $\frac{2}{5}w \geq -6$
3. Solve $|3a - 2| < 4$. Then graph the solution set.
4. Define a variable, write an inequality, and then solve the following. *Ten less than five times a number is greater than ten.*
5. Lori had a quarter and some nickels in her pocket, but she had less than \$0.80. What is the greatest number of nickels she could have had?
6. **Standardized Test Practice** Which number is a member of the solution set of $-\frac{3}{4}x < -33$?
(A) 54 (B) 44 (C) -33 (D) -54

• THURSDAY $\Rightarrow$ Exam 2 (Excellent Review for Semester Exam too!)

ANSWERS

1. $\{x \mid x < 7\}$
2. $\{w \mid w \geq -15\}$
3. $\{a \mid -\frac{2}{3} < a < 2\}$
4. $n = \text{number}; 5n - 10 > 10;$
 $n > 4$
5. 10 nickels
6. A



{Exam 2 Topics} Thursday 5-15-08

Chapter 6 $\Rightarrow$ Solving Linear Inequalities

6-1 } Solving linear inequalities
to 6-3 } (using the GRI)

6-4 } Solving compound inequalities
(and, or)

6-5 } Solving absolute value equations
and inequalities
 $\oplus \swarrow \searrow \ominus$
 Result in compound inequalities

6-6 } Graphing inequalities in the
coordinate plane.

{Semester 2 Exam Topics} Tues/Weds/Thurs 5/27/5/28/5/29

* Ch. 3-6 $\Rightarrow$ Ratios and Proportions

Ch. 4 $\Rightarrow$ Graphing Relations and Functions*

* Ch. 5 $\Rightarrow$ Analyzing Linear Equations
(S-I Form, Standard Form, P-S Form)
(*SLOPE)

Chapter 6 } Pg. 359 to 362
Study Guide }

- ☐ Vocabulary #1 to 9
 - ☐ Ch 6-1 # 9-17
 - ☐ Ch 6-2 # 18-26
 - ☐ Ch 6-3 # 27-35
- } PRACTICE
-

Homework: Ch. 6 PRACTICE TEST # 1 to 10
Page 363

Demo - interactive inequality graphing
program

↳ How to find: Google

graph linear inequality interactive

Linear Inequality Activity

http://www.mathwarehouse.com/algebra/linear_equation/interactive-linear-inequality.php

Explore formula, graph and equation of a linear Inequality

Linear Equations: [slope of a line](#) | [interactive slope](#) | [y-intercept](#) | [interactive linear equation](#) | [real world applications](#) | [system of linear equations](#)

Click and drag on either point A or point C and the linear inequality's graph and equation will adjust accordingly. To change the inequality from $\geq$ to $>$, $<$ or $\leq$ click on the equation itself.

